

Ser. No. 10/805,841

- 2 -

Response to Office Action of 2/4/05

Atty Docket 200512-5

## AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0018] with the following amended paragraph:

[0018] The long readout time of spiral trajectories leads to off-resonance signals that blur into neighboring pixels; spins from multiple off-resonance frequencies can all contribute to the voxel signal. However, it can generally be assumed that  $B_0$  inhomogeneity is smoothly varying across the FOV (this assumption will be referred to as 'assumption(i)'). Thus, the average off-resonance frequency in any pixel is usually close to the true local  $B_0$  field strength. This concept is exploited in the ~~[[conventional]]~~proposed method to create an off-resonance frequency map in spiral imaging, in which the phase difference is taken between two images (with different TE's) even though both images are already blurred by off-resonance effects.